PATENT

## Claim Amendments:

Please amend the claims as indicated:

1-26. (*CANCELED*)

26. (AMENDED) A method for eliminating redundant sequences that are common between two samples, the method comprising of the steps:

isolating RNA strands from a first sample;

isolating RNA strands from a second sample;

generating cDNA strands from the RNA strands from the first sample;

mixing the cDNA strands of the first sample with the RNA strands from the second sample;

hybridizing the cDNA strands and RNA strands with common sequences hybridizing to form cDNA/RNA compliments, the cDNA strands and the RNA strands without common sequences remaining unhybridized cDNA strands and unhybridized RNA strands; and

degrading the <u>cDNA/RNA</u> compliments to leave the unhybridized cDNA strands and the unhybridized RNA strands.

- 27. (AMENDED) The method of Claim 26, wherein the step of generating cDNA strands for from the RNA strands from the first sample comprises performing RT-PCR.
- 28. (CANCELLED)
- 29. (PREVIOUSLY PRESENTED) The method of Claim 26, wherein the first sample is a healthy tissue and the second sample is a diseased tissue.
- 30. (PREVIOUSLY PRESENTED) The method of Claim 26, wherein the first sample is a diseased tissue and the second sample is a healthy tissue.
- 31. (PREVIOUSLY PRESENTED) The method of Claim 26, further comprising: amplifying the unhybridized cDNA strands using PCR.

Response to OA 8\_25\_03

- 32. (AMENDED) The method of Claim 26, further comprising:
  producing a second set of cDNA strands from the unhybridized RNA strands.
- 33. (PREVIOUSLY PRESENTED) The method of Claim 32, further comprising: amplifying the second set of cDNA strands using PCR.
- 34. (PREVIOUSLY PRESENTED) The method of Claim 26, wherein the step of degrading compliments is performed with an Exonuclease III enzyme.
- 35. (AMENDED) The method of Claim 26, wherein the step of degrading compliments is performed with an Exonuclease IV VII enzyme.
- 36. (AMENDED) The method of Claim 26, further comprising:
  displaying <u>at least one of the unhybridized cDNAs strands or and the unhybridized RNAs strands.</u>
- 37. (PREVIOUSLY PRESENTED) The method of Claim 36, wherein the step of displaying comprises using electrophoresis.
- 38. (AMENDED) The method of Claim 26, further comprising:
  reading at least one of the unhybridized cDNA strands or and the unhybrized RNA
  strands with a photographic plate an autoradiogram.
- 39. (AMENDED) The method of Claim 26, wherein the first and second samples are selected from a the group comprising consisting of cells, tissues, pathogens, plants, and animals.
- 40. (AMENDED) The method of Claim 26, wherein the first and second sample are differentiated due to a diseased state, developmental, change, or induced by an external or internal stimulus.

- 41. (AMENDED) A method for determining differences between a first sample of cDNA strands and a second sample of RNA strands, the method comprising of the steps:
  - mixing the first sample of cDNA strands with the second sample of RNA strands; hybridizing the cDNA strands and the RNA strands with common sequences hybridizing to form cDNA/RNA compliments, the cDNA strands and the RNA strands without common sequences remaining unhybridized cDNA strands and unhybridized RNA strands; and
  - degrading the cDNA/RNA compliments to leave the unhybridized cDNA strands and the unhybridized RNA strands; and
  - analyzing at least one of the unhydridized cDNA strands and the unhybridized RNA strands to determine differences between the first sample and the second sample.
- 42. (CANCELLED)
- 43. (AMENDED) The method of Claim 41, further comprising: amplifying the unhybridized cDNA strands using PCR.
- 44. (AMENDED) The method of Claim 41, further comprising:
  producing a further set of cDNA strands from the unhybridized RNA strands.
- 45. (PREVIOUSLY PRESENTED) The method of Claim 44, further comprising: amplifying the further set of cDNA strands using PCR.
- 46. (PREVIOUSLY PRESENTED) The method of Claim 41, wherein the step of degrading compliments is performed with an Exonuclease III enzyme.
- 47. (AMENDED) The method of Claim 41, wherein the step of degrading compliments is performed with an Exonuclease IV VII enzyme.